User Manual

AT-16 OBD GPS Tracker (Vehicle/Taxi/Bus)

The AT-16 combined with the GSM and GPS technique and it's very easy to use that just insert to the OBD of the car that can track the position of the vehicles from SMS or Tracking Platform

Application Fields

- Car Rental/Fleet Management
- Fleet Management
- Tracking Position

1. Specification

GSM module	MTK program, GSM 850/900/1800/1900 Support TCP protocol
GPS Chipset	U-BLOX 7020(Support GPS/Glonass/Galileo/Compass)
GPS sensitivity	-162dB
Hot start	1sec.,average
Warm start	30 sec.,average
Cold Start	35 sec, average
Altitude Limit	18,000 meters (60,000feet) max.

Operating temperature	-20℃－55℃
Battery Volume	180mAh
Dimension	50.4mm×46.3mm×21.3mm
Voltage	8V – 48V
Average Current When stand-by	<84mA

2. Product Listing

- GPS TRACKER AT-16 (1PCS)
- User Manual (CD)

3. How to install the SIM Card in the AT-16

3.1.1 Open the package, check the model and accessories whether correct and full ,or contact your seller

3.1.2 Get ready a SIM Card .

3.1.3 Disconnect the waterproof bloc, insert the SIM Card .

Pay Attention：

（1）Tracker will switch on automatically after insert the SIM card

（2）SIM Card should open the GPRS function

（3）SIM Card should open the “Caller ID display” function

（4）If your SIM Card is open and need enter SIM PIN, please check your mobile phone user manual and close the SIM PIN function

（5）Please confirm that the SIM Card have enough money。

（6）To avoid the stealer break it, please put the tracker in a covert place

（7）Do not put the tracker near the emissive source

（8）Tracker have internal GSM and GPS antenna, please ensure that the tracker should face the sky without any metal block it

4. LED Status

4. 1 Orange LED - GSM

Led Status	Discription
Flash One time in 2 seconds	GSM Initialization
Light On	GPRS Work Normally
Light Off	GSM Dormancy

4. 2 Blue LED - GPS

Led Status	Discription
Flash One time in 2 seconds	GPS finding the signal
Light On	GPS work normally
Light Off	GPS Dormancy

5. Work Mode

This tracker have two work mode which is SMS and GPRS Mode. SMS mode is for off line tracking by Mobile phone. GPRS Mode is for on line tracking by computer and mobile phone .

6 . Tracker Default Work Mode

The Original password of the tracker is : 0000

The Default battery switch is : OFF

The Default work mode is : Sleep Mode

The Default Voice is : ON

About the Alarm information, The Tracker will send all of the alarm information to the first pre-saved number except the SOS Alarm that send it to all 1, 2 ,3 pre-saved number

Detail Operation

1. Controller phone number

Command: * controller phone number * user password *Sequence number (1-3) **
Eg: *13900000000*0000*1-3**
Reply : SET USER NUMBER 1-3 OK
Note: 1. Tracker can have three pre-saved number
2. New Number can cover the old number
3. No pre-saved number also can control the tracker, but alarm information only to pre-saved number

2. Work Mode Exchange :

SMS Mode Command：700+ user password
Eg: 7000000
Reply: SET MODE OK, CURRENT MODE: SMS

GPRS Mode Command：710+ user password
Eg: 7100000
Reply: SET MODE OK, CURRENT MODE: GPRS

3. Change user password

Command: 777+new password +old password (4 figures)
Eg: 77712340000
Reply: SET USER PASSWORD OK

4. Request the single position

Command: 666+ user password
eg: 6660000
Reply: when the tracker receive the command, then will send the position with longitude and latitude

5. Request location with Google map URL link

Command 1: 669+ user password
Eg: 6690000
Reply : When the tracker receive the command, tracker will send a Google link to the sender

Reply : SET DAILY REPORT OFF

Note: HH stands for hour with defined range of [00, 23]. MM stands for minute with defined range of [00, 59].

6. Daily Report

Command: 665+user password+HHMM

eg: 66500001022

Reply : SET DAILY REPORT OK.

7. Geo- Fence

Turn On Geo-fence
Command: 211+ password
Eg: 2110000
Reply: GEO-FENCE ON

Set Geo Fence Command: 005+user password+Rzzz.z
E.g: 0050000R1.0 (1000M)

Reply: GEOFENCE ON

Turn geo-fence off
Command: 210+ password
Eg: 2100000
Reply: GEO-FENCE OFF

8. Battery low voltage alert

While device detect internal battery is low power, it will send coordinate message with STATE: POWER LOW Alarm

9. Mileage Statistics(Software Support)

Set initial mileage value (zero clearing)

Command: 142+PW<+M+X>

Eg : 1420000

Reply : MILEAGE STATISTICS RESET OK

Eg : 1420000M1000

Reply : SET TOTAL MILEAGE OK,CURRENT：1000

Note: M is delimiter, X is initial mileage value with unit of meter

Read current mileage

Command: 143 + user password.

eg: 1430000

Reply : MILEAGE STATISTICS:ON，CURRENT TOTAL MILEAGE:XX.

10. Time Zone

Command: 896 + user password + D + NN

Eg: 8960000E08

Reply : TIME ZONE SET OK,CURRENT：E8.

Note : D takes E or W to indicate east or west time zone respectively. N takes a 2-digit number (1-12) to indicate time zone number.

11. Overspeed Alarm

Command : #122#user password#X##

Eg: #122#0000#120##

Reply: SET RATE LIMIT:120

Close command : #122#0000#0##

Note : X is speed benchmark value, which is an integral number. unit is KM/H with defined domain of [0, 999].

12. Tow alarm

Turn on tow truck alert: 181 + user password + TX

Eg: 181000015 (15 seconds)

Reply : TOWED ALERT ON

Turn off tow truck alert: 180 + user password

Eg: 1800000

Reply : TOWED ALERT OFF

Note: X is the continuous time, the wide is 【15，100】, the unit is second

13. Set Defence Alarm ON/OFF

Set Up Defence：712+password

Eg：7120000

Reply：SF OK
Set Down Defence：713+password
Eg： 7130000
Reply：CF OK

14. Set Sleep Mode ON/OFF

Open Sleep Mode command :SLEEP,000000,1

Close Sleep command : SLEEP,000000,0

Explanation : Tracker will close gps/gsm/power in sleep mode for save power, once shake, tracker will work again

15. Voice ON/OFF

Voice ON command : 150+password

Eg : 1500000

Reply : Voice: ON

Voice OFF Command : 151+password

Eg : 1510000

Reply : Voice : OFF

Explanation : tracker will call and send message to pre-saved number in Voice on mode when take alarm, and will not call but only send message to pre-saved number in voice off when take alarm .

16. Set Access Point Name (APN)

Command1：#803#user password#APN##
eg：#803#0000#CMNET##
Command2 : #803#user password#APN#APN user name#APN password##
Reply: SET GPRS APN OK

17. Set server IP address and Port

Command：#804#user password# IP # Port ##

Eg:#804#0000#115.160.150.155#8080#
Reply: SET SERVER IP AND PORT OK

18. Set Data upload interval time

Command：#805#user password# X #1# (ACC ON)
eg：#805#0000#20#1##
Reply: SET GPS SAMPLING TIME AND QUANTITY OK

Command：#809#user password# X #1# (ACC OFF)
eg：#805#0000#300#1##
Reply: GPRS REPORT SAMPLING 2 OK
Note： X is mean interval time, the unit is seconds，the wide is【10，59999】，1 is mean the interval quantity, when X=0, Close the upload function

Special Command :

1、Reset Command : *RESET#0000##
2、Restart Command *RESTART#0000##
3、Read the current setup information Command: *RCONF# and *RCONF1#